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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/824,493 | 04/02/2001 | Timothy G. Curray | SPL-32 | 9371 |

7590 12/15/2004

INTELLECTUAL PROPERTY LAW DEPARTMENT
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| EXAMINER |
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JACOBS, LASHONDA T

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| ART UNIT | PAPER NUMBER |
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2157

DATE MAILED: 12/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/824,493

Applicant(s)

CURRAY ET AL

Examiner

LaShonda T Jacobs

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 02 April 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☐ Claim(s) _____ is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-41 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>6/21/2001</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rosner et al (hereinafter, "Rosner", US Pat. No. 6,298,376) in view of Papadopoulos et al (hereinafter, "Papadopoulos", U.S. Pat. No. 6,587,884).

As per claim 1, Rosner discloses an Ethernet communications system for a power monitoring system, said Ethernet communications system comprising an Ethernet communication device operative in association with a power monitoring device, said Ethernet communications device including:

- a processor capable of functioning as a master device (col. 2, lines 45-53 and col. 3, lines 27-40); and
- a communications interface capable of gathering, under control of said processor real-time information from one or more slave devices (col. 1, lines 60-61, col. 2, lines 45-53 and col. 3, lines 21-26).

However, Rosner does not explicitly disclose:

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- said processor and said communications interface further being operative for presenting said real-time information in a format useable by Hypertext Markup Language HTML pages.

Papadopoulos discloses a dual Ethernet protocol stack for maximum access to a programmable logic controller (PLC) including:

- said processor and said communications interface further being operative for presenting said real-time information in a format useable by Hypertext Markup Language HTML pages (col. 3, lines 40-67 and col. 4, lines 15-29).

Given the teaching of Papadopoulos, it would have been obvious to one of ordinary skill in the art to modify Rosner by including a web server and allowing a user/client to connect to the server to view and control data/information on a real time basis in a timely and efficient manner.

As per claim 9, Rosner discloses an industrial power metering system comprising:

- a power monitoring device (abstract and col. 2, lines 45-53);
- gathering real-time information from said power monitoring device (col. 1, lines 60-61, col. 2, lines 45-53 and col. 3, lines 21-26);
- dynamically gathering, formatting and verifying real-time information from the power monitoring device (col. 1, lines 60-61, col. 2, lines 45-53 and col. 3, lines 21-26).

However, Rosner does not explicitly disclose:

- an Ethernet communications device operatively coupled with said power monitoring device;
- said Ethernet communications device including a processor and a communications interface; and
- a web server capable of communicating through said communications interface.

Papadopoulos discloses a dual Ethernet protocol stack for maximum access to a programmable logic controller (PLC) including:

- an Ethernet communications device operatively coupled with said power monitoring device (col. 4, lines 51-60);
- said Ethernet communications device including a processor and a communications interface (col. 4, lines 33-40); and
- a web server capable of communicating through said communications interface (col. 4, lines 33-40).

Given the teaching of Papadopoulos, it would have been obvious to one of ordinary skill in the art to modify Rosner by including a web server and Ethernet communication device to allow a user/client to connect to the server to view and control data/information on a real time basis in a timely and efficient manner.

As per claims 17 and 31, Rosner discloses an Ethernet communications method for a power monitoring system, said method comprising:

- gathering real-time information from said power monitoring device (col. 1, lines 60-61, col. 2, lines 45-53 and col. 3, lines 21-26).

However, Rosner does not explicitly disclose:

- presenting said real-time information in a format useable by Hypertext Markup Language pages.

Papadopoulos discloses a dual Ethernet protocol stack for maximum access to a programmable logic controller (PLC) including:

- presenting said real-time information in a format useable by Hypertext Markup Language pages (col. 3, lines 40-67 and col. 4, lines 15-29).

Given the teaching of Papadopoulos, it would have been obvious to one of ordinary skill in the art to modify Rosner by including a web server and allowing a user/client to connect to the server to view and control data/information on a real time basis in a timely and efficient manner.

As per claim 24, Rosner discloses an industrial power metering method comprising.

- monitoring power (col. 1, lines 60-61, col. 2, lines 45-53 and col. 3, lines 21-26); and
- gathering real-time information from said power monitoring (col. 1, lines 60-61, col. 2, lines 45-53 and col. 3, lines 21-26);.

However, Rosner does not explicitly disclose:

- dynamically gathering, formatting, verifying and communicating real-time information from the power monitoring device in a format usable by HTML pages.

Papadopoulos discloses a dual Ethernet protocol stack for maximum access to a programmable logic controller (PLC) including:

- dynamically gathering, formatting, verifying and communicating real-time information from the power monitoring device in a format usable by HTML pages (col. 3, lines 40-67 and col. 4, lines 15-29).

Given the teaching of Papadopoulos, it would have been obvious to one of ordinary skill in the art to modify Rosner by including a web server and allowing a user/client to connect to the server to view and control data/information on a real time basis in a timely and efficient manner.

As per claim 38, Rosner discloses an Ethernet communications card apparatus for a power monitoring device, said Ethernet communications card comprising;

- a processor capable of functioning as a master device (col. 2, lines 45-53 and col. 3, lines 27-40);

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- a communications interface capable of gathering, under control of said processor real-time information from one or more slave devices (col. 1, lines 60-61, col. 2, lines 45-53 and col. 3, lines 21-26).

However, Rosner does not explicitly disclose:

- said processor and said communications interface being operative for presenting said real-time information in a format useable by Hypertext Markup Language (HTML) pages.

Papadopoulos discloses a dual Ethernet protocol stack for maximum access to a programmable logic controller (PLC) including:

- said processor and said communications interface being operative for presenting said real-time information in a format useable by Hypertext Markup Language (HTML) pages (col. 3, lines 40-67 and col. 4, lines 15-29).

Given the teaching of Papadopoulos, it would have been obvious to one of ordinary skill in the art to modify Rosner by including a web server and allowing a user/client to connect to the server to view and control data/information on a real time basis in a timely and efficient manner.

As per claims 2, 10, 18, 25 and 32, Rosner discloses wherein said processor is further capable of:

- functioning as a slave device (col. 2, lines 45-53).

As per claims 3, 11, 19, 26 and 33, Rosner discloses:

- wherein said processor and said slave device are coupled, by said communications interface, in a daisy chain and wherein said Ethernet communications device is capable of using any of a plurality of protocols for either full duplex or half duplex

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communications, including SyMax, Modbus and Jbus (col. 2, lines 45-53 and col. 3, lines 4-13).

As per claims 4, 12, 20, 27 and 34, Rosner discloses the invention substantially as claims discussed above.

However, Rosner does not explicitly disclose:

- a server coupled with said communications interface, said server operating for sending data to a browser for dynamically formatting and verifying real-time data gathered by said processors and communications interfaces using JavaScript and VB script.

Papadopoulos discloses a dual Ethernet protocol stack for maximum access to a programmable logic controller (PLC) including:

- a server coupled with said communications interface, said server operating for sending data to a browser for dynamically formatting and verifying real-time data gathered by said processors and communications interfaces using JavaScript and VB script (col. 3, lines 40-67 and col. 4, lines 15-29).

Given the teaching of Papadopoulos, it would have been obvious to one of ordinary skill in the art to modify Rosner by including a web server and allowing a user/client to connect to the server to view and control data/information on a real time basis in a timely and efficient manner.

As per claims 5, 21, 28 and 35, Rosner discloses the invention substantially as claims discussed above.

However, Rosner does not explicitly disclose:

- a server operatively coupled with said communications interface, and further including a web browser capable of accessing said server and at least one processor in communication with said server, said web browser generating a login, and said

processor responding to said login by generating an access token for said browser for permitting access by said browser for a predetermined amount of time.

Papadopoulos discloses a dual Ethernet protocol stack for maximum access to a programmable logic controller (PLC) including:

- a server operatively coupled with said communications interface, and further including a web browser capable of accessing said server and at least one processor in communication with said server, said web browser generating a login, and said processor responding to said login by generating an access token for said browser for permitting access by said browser for a predetermined amount of time. (col. 3, lines 40-67 and col. 4, lines 6-19 and lines 15-29).

Given the teaching of Papadopoulos, it would have been obvious to one of ordinary skill in the art to modify Rosner by including a firewall to allow a user/client to enter a password before accessing the monitoring device in order to provide security to the overall system.

As per claims 6, 14, 22, 29, 36 and 39, Rosner discloses the invention substantially as claims discussed above.

However, Rosner does not disclose:

- a single physical interface chip capable of supporting dual physical Ethernet media types.

Papadopoulos discloses a dual Ethernet protocol stack for maximum access to a programmable logic controller (PLC) including:

- a single physical interface chip capable of supporting dual physical Ethernet media types. (col. 4, lines 51-65).

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Given the teaching of Papadopoulos, it would have been obvious to one of ordinary skill in the art to modify Rosner by including Ethernet communication chips to transmit and receive messages in a timely and efficient manner.

As per claims 7, 15, 23, 30, 37 and 40, Rosner discloses the invention substantially as claims discussed above.

However, Rosner does not explicitly disclose:

- a fast Ethernet transceiver which provides a media independent interface for attachment to a 10/100 media access controller, and is capable of directly driving an N45 interface through magnetics and termination resistors and also provides a pseudo-ECL interface for use with 100Base Fx fast fiber transceivers.

Papadopoulos discloses a dual Ethernet protocol stack for maximum access to a programmable logic controller (PLC) including:

- a fast Ethernet transceiver which provides a media independent interface for attachment to a 10/100 media access controller, and is capable of directly driving an N45 interface through magnetics and termination resistors and also provides a pseudo-ECL interface for use with 100Base Fx fast fiber transceivers. (col. 4, lines 51-65).

Given the teaching of Papadopoulos, it would have been obvious to one of ordinary skill in the art to modify Rosner by including Ethernet communication chips to transmit and receive messages in a timely and efficient manner.

As per claims 8, 16 and 41, Rosner discloses the invention substantially as claims discussed above.

However, Rosner does not explicitly disclose:

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- wherein said processor includes a Hypertext Transfer Protocol (HTTP) server for facilitating communications with an internet browser.

Papadopoulos discloses a dual Ethernet protocol stack for maximum access to a programmable logic controller (PLC) including:

- wherein said processor includes a Hypertext Transfer Protocol (HTTP) server for facilitating communications with an internet browse (col. 3, lines 40-67 and col. 4, lines 15-29).

Given the teaching of Papadopoulos, it would have been obvious to one of ordinary skill in the art to modify Rosner by including a HTTP server and allowing a user/client to connect to the server to view and control data/information on a real time basis in a timely and efficient manner.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. Pat. No. 6,105,093 to Rosner et al

U.S. Pat. No. 6,321,272 to Swales

U.S. Pat. No. 5,768,148 to Murphy et al

U.S. Pat. No. 5,86,391 to Salas et al

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LaShonda T Jacobs whose telephone number is 571-272-4004.

The examiner can normally be reached on 8:30 A.M.-5:00 P.M..


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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on 571-272-4001. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LaShonda T Jacobs
Examiner
Art Unit 2157

ltj
December 9, 2004



SALEH NAJJAR
PRIMARY EXAMINER